

PDR RID Report

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Document Scheduling Activity Phase

RID ID	PDR	50
Review	FOS	
Originator Ref	IVV-GSS-04	
Priority	2	

Section ATC Load Generation
Scenario

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Figure Table NA

Category Name Design

Actionee HAIS

Sub Category

Subject Use of Multiple Loads when performing an ATC Load

Description of Problem or Suggestion:

The presentation stated that an ATC load would be split into multiple loads if necessary. It was also stated that safety commands would be added at the end of each load to save the spacecraft if needed. Is the software able to keep logical groupings of commands together if a load is split? For instance, if a "maneuver start" command is transmitted, would it also transmit the "maneuver end" command and not split these into separate loads? Can the user specify which commands should not be split between loads?

Originator's Recommendation

Indicate how splitting commands into separate loads addresses logical groupings specified by the user.

GSFC Response by:

GSFC Response Date

HAIS Response by: D. Herring

HAIS Schedule 1/20/95

HAIS R. E. J. Kuntz

HAIS Response Date 1/20/95

The selection of commands to go into an ATC load is controlled by the selection of activities that are scheduled in the Detailed Activity Schedule (DAS). The ATC load represents an expanded version of the DAS, containing the commands associated with each activity in the DAS. If the start time of an activity falls within the time range of the DAS, all the commands associated with that activity will be included in the load, regardless of the time tag on any individual command.

When defining the Project Data Base, the user specifies each logical grouping of commands as an activity. This definition is used in the expansion of the activity into commands when the load is being generated; since the logical grouping is all part of a single activity and all commands for an activity are included in the same load, the logical grouping would not be split between loads.

For an activity such as a maneuver that should not be split across loads, the user would specify the entire maneuver as a single activity in the Project Data Base, including maneuver start and maneuver end commands with appropriate time offsets. When the maneuver activity is scheduled, the software would use the database definition and the scheduled start and stop times to create the ATCs (commands and time tags) that make up the expanded activity. These ATCs are merged into the ATC schedule. When the load is generated for the Target Day that includes the maneuver start time, the load would include all of the commands for the maneuver, even those with time tags after the end of the load time range.

Status Closed

Date Closed 2/1/95

Sponsor Johns

***** Attachment if any *****